

**MICROBIOLOGY DIVISION – MILWAUKEE HEALTH DEPARTMENT**

**M O N T H L Y R E P O R T**

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**MICROBIOLOGY REPORT:** The March 2006 issue of Microbiology Monthly Report, Volume 11, presents the laboratory diagnosis of some of the infectious diseases, the reference microbiology work done in this laboratory during February 2006 and new cases of syphilis in Milwaukee during January 2006. Information on the laboratory diagnosed mycobacterial infections in Wisconsin during January is also included.

**Legionnaires Disease (February 2006)**

Patient		Test		
Age	Sex	Urine Antigen	Culture	DFA
11	M	ND	-	+

ND = Not done

**Pertussis (Whooping cough) February 2006**

No positive case detected.

**Syphilis (February 2006)**

Test	Number Positive	Test	Number Positive
RPR	1	FTA-ABS	10
VDRL	39	DARK FIELD	0

**New Cases Syphilis**

The Wisconsin Division of Health has reported 4 new cases (early stages) of syphilis during January 2006 in Milwaukee. The median age of early syphilis cases is 46.0 years (range: 31-51 years). Morbidity distributions of the disease reported in this and the corresponding month of the previous year are as follows:

**New Cases of Syphilis (January 2006 and January 2005)**

Stage	Number of Cases	
	January 2006	January 2005
Primary syphilis	1	0
Secondary syphilis	1	0
Early latent	2	0
Late latent	1	2
Total	5	2

**Gonorrhea (February 2006)**

Number Tested	Decreased Susceptibility (DS)/Resistance (R) to Antibiotics			
	Ciprofloxacin	Ceftriaxone	Spectinomycin	Azithromycin
68	1 (IR)	0	0	0

**Gonorrhea from Other Sources (Aurora Consolidated Labs) February 2006**

Number Tested	Decreased Susceptibility (DS)/Resistance (R) to Antibiotics			
	Ciprofloxacin	Ceftriaxone	Spectinomycin	Azithromycin
5	0	0	0	0

**Isolates Other Than *N. gonorrhoeae* (February 2006)**

Organism	Site	Number Isolates	Organism	Site	Number Isolates
<i>Ureaplasma urealyticum</i>	Genital	29	<i>Mycoplasma hominis</i>	Genital	3

**Parasitic Enteric Pathogens (February 2006)**

Age	Sex	Pathogen	Number Cases
79	F	<i>Enteramoeba coli</i>	1
56	F	<i>Giardia lamblia</i>	1

**Mycobacterial infections (February 2006)**

Age	Sex	Test Results			Identification
		Sputum Smear	Culture	DNA Probe	
30	M	-	+	+	<i>M. avium complex</i>
66	M	-	+	+	<i>M. avium complex</i>

**Reference Cultures (February 2006)**

Age	Sex	Site/Specimen Source	Culture Identification
81	M	Blood	<i>Bacillus sp. NOT anthracis</i>
30	M	Blood	<i>Corynebacterium aquaticum</i>
42	M	Blood	<i>Roseomonas gilardii</i>
43	F	Sputum	<i>Pseudomonas sp.</i>
24	M	Throat	<i>Neisseria meningitides</i>
55	F	Sputum	<i>Corynebacterium striatum</i>
38	F	Urine	<i>Acinetobacter lwoffii</i>
20	F	Urine	<i>Neisseria lactamica</i>

**Bacterial Enteric Pathogens (February 2006)**

<b>Age</b>	<b>Sex</b>	<b>Pathogen</b>	<b>Age</b>	<b>Sex</b>	<b>Pathogen</b>
17mo	F	<i>Shigella sonnei</i>	24	F	<i>Salmonella ohio</i>
			44	M	<i>Salmonella corvallis</i>
			25	F	<i>Salmonella worthington</i>
43	M	<i>Salmonella enteritidis</i>	53	F	<i>Salmonella heidelberg</i>
41	F	<i>Salmonella enteritidis</i>	32mo	M	<i>Salmonella</i> subsp I, serogroup B; I, monophasic
52	F	<i>Salmonella typhimurium</i>	7	F	<i>Salmonella typhi</i>

Laboratory Diagnosed Mycobacterial Infections in Wisconsin during January 2006

<i>Mycobacterium</i> species		Brown	Dane	Eau Claire	Fond du Lac	Kenosha	La Crosse	Marathon	Milwaukee	Outagamie	Portage	Racine	Waukesha	Winnebago	Wood	TOTALS
<i>M. tuberculosis</i> complex	Pulm		1						2	1						4
	Extra			1					1							2
<b>Total <i>M. tuberculosis</i> complex</b>		<b>0</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6</b>
<i>M. avium</i> complex	Pulm	2	6			1	1		46			1	2	2	2	63
	Extra		1				2		5							8
<i>M. gordonae</i>	Pulm		5	1					9					3		18
	Extra								1							1
<i>M. abscessus</i>	Pulm			1		1			2						1	5
	Extra										1					1
<i>M. chelonae</i>	Pulm			1					5						1	7
	Extra				1			1								2
<i>M. fortuitum</i> group	Pulm								7	1						8
	Extra														1	1
<i>M. kansasii</i>	Pulm															0
	Extra															0
<i>M. marinum</i>	Pulm															0
	Extra															0
<i>M. mucogenicum</i>	Pulm								6					1		7
	Extra								1							1
<i>M. xenopi</i>	Pulm		1						7				1			9
	Extra															0
<i>M. scrofulaceum</i>	Pulm														1	1
<i>Mycobacterium sp. (not TB)</i>	Pulm														2	2
<b>TOTALS</b>		<b>2</b>	<b>13</b>	<b>3</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>1</b>	<b>89</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>3</b>	<b>6</b>	<b>8</b>	<b>134</b>

Extra-Pulmonary Sources of Isolation:

<i>Mycobacterium</i> species	Extra-pulmonary site of isolation
<i>M. tuberculosis</i> complex	1 spinal tissue/fluid, 1 knee
<i>M. avium</i> complex	1 neck, 2 stool, 1 pleural fluid, 2 blood, 1 urine, 1 neck
<i>M. gordonae</i>	1 urine
other <i>Mycobacterium</i> species	<i>abscessus</i> : 1 lymph node <i>chelonae</i> : 1 PEG site 1 sinus <i>fortuitum</i> group: 1 leg <i>mucogenicum</i> , 1 blood

Antibiotic Susceptibilities: TB First-Line Drugs tested:

isoniazid=INH (0.2 ug/ml and 1.0 ug/ml), rifampin (1.0 ug/ml), ethambutol (5.0 ug/ml), pyrazinamide=PZA (100 ug/ml)

Drug Resistance	Number of Isolates
Susceptible to all first-line drugs	3
Resistant to INH (0.2 ug/ml) only	
Resistant to both INH concentrations	
Resistant to rifampin only	
Resistant to ethambutol only	
Resistant to PZA only, or PZA indeterminate	1 <sup>#</sup>
Multi-drug resistant	
Not reported (out-of-state patient)	
susceptibility testing pending	2
<b>TOTAL</b>	<b>6</b>

*M. bovis* BCG susceptibility testing not included. (#) PZA resistant/indeterminate isolates: 1 *M. tuberculosis*.

Source: Mycobacteriology Laboratory Network Data Report, Wisconsin State Laboratory of Hygiene, Madison, WI.